

ABSTRACT OF THE DISCLOSURE

A data recording method of modulating the power of a laser beam in accordance with a pulse pattern, projecting the laser beam onto a write-once type optical recording medium to form a record mark and recording data in the write-once type optical recording medium, wherein the pulse pattern is constituted by a pattern in which the power of the laser beam is set to a recording power P_w within a first period and a second period and the power of the laser beam is set to an intermediate power P_m lower than the recording power P_w within a third period provided between the first period and the second period, the length of the first period and the levels of the recording power P_w and the intermediate power P_m being set to satisfy $1.7T \leq t_{top2}$ and $1.4 \leq P_w/P_m$ where T is a length corresponding to one cycle of a reference pulse and t_{top2} is the length of the first period.

According to the thus constituted data recording method, it is possible to record data in a write-once type optical recording medium at a high linear recording velocity.